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power mode and the standard mode; and
switching between the low power mode and the standard mode, wherein:
the low power mode maintains the laser diode at a temperature within a
predetermined range of temperatures; and
the standard mode maintains the laser diode at a temperature that
corresponds to a predetermined wavelength of light output from
the laser diode.

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9. (Amended) An apparatus comprising:
means for operating a thermo-electric cooler coupled to a laser diode in one of a
low power mode and a standard mode; and
means for switching between the low power mode and the standard mode,
wherein the low power mode maintains the laser diode at a first
temperature within a predetermined range of temperatures and the
standard mode maintains the laser diode at a second temperature that
corresponds to a predetermined wavelength of light output from the laser
diode.

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14. (Amended) An optical transceiver comprising:
a temperature circuit;
a thermo-electric cooler coupled to the temperature circuit; and
a laser diode coupled to the thermo-electric cooler, wherein the thermo-electric
cooler is responsive to inputs from the temperature circuit, the inputs
identifying one of at least a first mode and a second mode, wherein a
choice of the one of at least a first mode and a second mode is a function
of a performance requirement.
